ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. NO. PROJECT NAME 02AH62 Cheshire Monitoring Study				NO.				Activity Code: 12345 90101 m			
SAMPLERS: (Print Name and Sign) Mike Murphy Mike Murphy Mike Murphy STA. NO. DATE TIME M A A STATION LOCATION P B					OF	a l y	t ^e	//	// AIR 0208008		
STA. NO.	DATE	TIME	COMP	GRAB	STATIO	ON LOCATION	CON- TAINERS	An			TAG NUMBERS
DO1	8/6	00:00	X		GHS		1				5-340274 1 to 1
S03	8/6	00:00	X		ADDAVILLE		1				5-340276 1 to 1
SO1	8/6	00:00	Х		GHS		1				5-340273 1 to 1
SO2	8/6	00:00	X		RVHS		1				5-340275 1 to 1
											GHS#3012 PSTG AUG = 16,1
					u						GHS#3013, Pszg Aug = 16.3
											RUHS, PSTy Aug = 20.0
											Addaville, Psig Aug = 20.5
				-							
Relinquished by: (Signature) Date / Time Received by: (Signature) Medo Murph 8-6-22 15'41 Publisher			nature)	h			Ship To:				
Relinquished by: (Signature) Date / Time Received by: (Signature)				nature)	7						
					7			ATTN:			
Relinquished by: (Signature) Date / Time Received for Laborator (Signature)				ory by:	,	ate / Time	:28m	Airbill Number UPS # 12 401 19901 4036 1175			
"Collin /				5-140068	8/16	103 8.	مهر کی	Chain of Custody Seal Numbers			

02AH62	AKKIVIF	2 DATE: 8/16/20	wa nue dan	6: 91712002		
Sampler Mike Murphy		- S-Hilbertweep (1941) - 1-65 Hilbertweep (1941)				
Cooler ID	02AH621	Page 5-1400	68			
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH62DO1	DO1	06/08/2002 00:00:00	◯ Grab Com	GHS	1	5-340274 1 to 1
Bottle N	lo. 1	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH62S03	S03	06/08/2002 00:00:00	◯ Grab Com	ADDAVILLE	1	5-340276 1 to 1
Bottle N	lo. 1	Parameter PM10		t0		a "
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH62SO1	SO1	06/08/2002 00:00:00	◯ Grab Com	GHS	1	5-340273 1 to 1
Bottle N	lo. 1	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH62SO2	SO2	06/08/2002 00:00:00	○ Grab Com	RVHS	1	5-340275 1 to 1

CENTRAL REGIONAL LABORATORY Data Checklist

Data Set AIR 0208008 Cheshire Monitoring Study
PM 10

- Chain of Custody
- Reported in LIMS
- Transmittal Report w/signatures of the following:
 - Analyst(s)
 - Environmental Data Coordinator

Prepared by: Sylvia Priffix 10-22-02
Environmental Data Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 606●5

Date:

OCT 2 2 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist Fra

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: 0208008

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH62D01, 2002AH62S01, 2002AH62S02,

and 2002AH62S03.

mor hadaa
Data Management Coordinator and Date Received
Date Transmitted:OCT 2 2,2002
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date
Comments:

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method</u> Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te <u>N</u> tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or Q uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag</u> .
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.



Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605 Fax:(312)886-2591 Phone:(312)353-8370

WORK ORDER

Printed: 10/17/02 12:12:39PM

0208008

US EPA Region 5 Central Regional Laboratory

Client: Air Division, US EPA Region 5

Project: Gavin, Cheshire. Ohio

Project Manager:

Marilyn Jupp

Project Number:

[none]

Report To:

Kathy Triantafillou Air Division, US EPA Region 5 77 West Jackson Boulevard Chicago, IL 60605

Phone: (312) 353-4775 Fax: (312) 353-2001

Date Due:

Sep-07-02 15:00 (21 day TAT)

Received By:

William Sargent

Date Received:

Aug-16-02 08:23

Logged In By:

William Sargent

Date Logged In:

Aug-16-02 08:25

Samples Received at: All containers intact: ٥C

No

Sample labels/C●C agree: Samples Preserved Properly:

No

Custody Seals Present:

No No

'AT Expi	res Comments
	`AT Expi

0208008-01 2002AH62D01-GHS#3012.PSTG AVG=16.1 [Air Filter] Sampled

Aug-06-02 00:00 Central

PM10

Analysis

Sep-07-02 12:00

21

Starts 8-3-01 Ends 8-3-02

Aug-06-03 00:00

0208008-02 2002AH62S01-GHS#3013,PSTG AVG=16.3 [Air Filter] Sampled

Aug-06-02 00:00 Central

PM10

Sep-07-02 12:00

21

Aug-06-03 00:00

0208008-03 2002AH62S02-RVHS,PSTG AVG=20.0 [Air Filter] Sampled Aug-06-02 00:00 Central

PM10

Sep-07-02 12:00

21

Aug-06-03 00:00

0208008-04 2002AH62S03-ADDAVILLE, PSTG AVG=20.5 [Air Filter] Sampled

Aug-06-02 00:00 Central

PM10

Sep-07-02 12:00

21

Aug-06-03 00:00

Data Set Number:	0208008	Paran	eter:	Suspended Particles
Facility Name:	_CHESHIRE MONITOR	RING STUDY		~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Study Name:	CHESHIRE MONITOR	RING STUDY		
Date of Narrative:	<u>10/17/2002</u>	Analyst:	FAA	- -3
Prepared by:	FRATA	Signature:	_fr	HA

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on August 16, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q8609567	2002AH62D01	5-340274-1
Q8609568	2002AH62S01	5-340273-1
Q6597482	2002AH62S02	5-340275-1
Q6597481	2002AH62S03	5-340276-1

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 10/15/2002 and was completed on 10/17/2002. All exposed filters were in good conditions. No sampler serial numbers were provided by the field for filter Q6597482 (CRL Sample I.D 2002AH62S02) and Q6597481 (CRL Sample I.D 2002AH62S03).

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

ENVIRONMENTAL PROTECTION AGENCY **REGION V** CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 08/08/2002 LAB ARRIVAL DATE: 08/16/2002 DUE DATE: 09/07/2002 DU NUMBER: 90101A WORK ORDER NUMBER: 0208008 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		
1	2002AH62D01	GUIDING HANDS SCHOOL	0.0911		
2	2002AH62S01	GUIDING HANDS SCHOOL	0.0972		
3	2002AH62S02	RVHS	0.0786		
4	2002AH62S03	ADDAVILLE	0.0212		
DATE OF ANALYSIS			10/15-17/2002		E
AN	ALYST		FAA		

	47	0- 21 6 2	
Reviewed by:	MI	Date: 10 / 21 / 02	Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and Ino	rganic Group	Page _ of _

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 0208008 Facility: CHESHIRE MON (TORING STUDIES

Parameter: SUSPENDED PARTICLESCRL.SOP: AIGO 47

Package Overview:	YES	NO
Raw Data Package Complete?		
Results Reported Correctly?		
Special Requests Done?	N/A	
Calculations Checked?		
Calibration Not Exceeded?	NIA	
Manual Peak Integration performed? Circle one IC or GC and Check	NIA	
Field QC Checked?	NIA	
Quality Control:		
Holding Times Met?	V	
Preservation Checked?	N/A	
Proper Digestion Verified?	NIA	
Initial Instrument Performance Checks Verified?	1	
Calibration Verification Checked?	NIA	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	N/A	- Constitution
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Narrative Complete?	i i	
Analyst: FMA Peer Reviewer: Angula Jusoker Date: 10/18/02 Date: 0/21/2002		1
Date: 10/18/02 Date: 0/21/2002		

	<u></u>
Comments Attached? (Y/N)	 CRL Form Version 01/00

Data Set Number:	0208008	Parai	neter:	Suspended	Particles_
Facility Name:	CHESHIRE MONITOR	RING STUDY			
Study Name:	CHESHIRE MONITOR	RING STUDY		MANUAL TO STATE OF THE STATE OF	
Date of Narrative:	10/17/2002	Analyst:	<u>FAA</u>		
Prepared by:	F10-16	Signature:	_5	of	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on August 16, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

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Q6597481	2002AH62S03	5-340276-1

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QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Work Ordert Numbers:

<u>0208008</u>, 0209001, 0209002, 0209015, 0209015, 0209016, 0209017,0209018, 0210005

Date of Analysis 8/16/2002

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences		
Actual (g)	Balanced (g)	(g)		
		Limit +/-0.0005 g		
4 0000	4.0000	0.0000		
1.0000	1.0000	0.0000	100	
2.0000	2.0000	0.0000	*	

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q6597484	2002AH64S01	08/18/02	Analyst 1	4.4425
Q6597484	2002AH64S01	08/18/02	Analyst 2	4.4430
Differences (Limit +/-	- 5 mg)			-0.0005
Q6597471	2002AH65S02	08/24/02	Analyst 1	4.4799
Q6597471	2002AH65S02	08/24/02	Analyst 2	4.4800
Differences (Limit +/-	- 5 mg)			-0.0001

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg	Ī	Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
. I i i i i i i i i i i i i i i i i i i					4 1 2		454				
Manta Oude	- N										
Q8609567	r Number 0208008 2002AH62D01	08/06/02	Guiding Hands School	3012	16.10		0.00	4.3699	4.4610	0.0911	ERR
Q8609568	2002AH62D01	08/06/02	Guiding Hands School	3012	16.30		0.00	4.3413	4.4385	0.0972	ERR
Q6597482	2002AH62S01	08/06/02	RVHS	-	20.00		0.00	4.4009	4.4795	0.0372	ERR
Q6597481	2002AH62S02 2002AH62S03	08/06/02	Addaville	-	20.50		0.00	4.4009	4.4221	0.0212	ERR
Q0397401	2002AH02303	00/00/02	Audaville	_	20.50		0.00	4.4003	7.7221	0.0212	LIKIT
	r Number 0209001										
Q6597480	2002AH63D01	08/12/02	Guiding Hands School	3013	20.45		0.00	4.4166	4.4776	0.0610	ERR
Q6597479	2002AH63S01	08/12/02	Guiding Hands School	3012	20.90		0.00	4.4190	4.4659	0.0469	ERR
Q6597493	2002AH63S02	08/12/02	RVHS	-	21.10		0.00	4.4035	4.4594	0.0559	ERR
Q6597489	2002AH63S03	08/12/02	Addaville	-	20.80		0.00	4.4134	4.4632	0.0498	ERR
Mark Orda	r Number 0209002										+
Q6597488	2002AH64D01	08/18/02	Guiding Hands School	3013	20.95		0.00	4.4444	4.4624	0.0180	ERR
Q6597484	2002AH64S01	08/18/02	Guiding Hands School	3012	20.85		0.00	4.4140	4.4425	0.0285	ERR
Q6597486	2002AH64S02	08/18/02	RVHS	-	21.05		0.00	4.3839	4.3995	0.0156	ERR
Q6597487	2002AH64S03	08/18/02	Addaville		18.85		0.00	4.4050	4.4266	0.0216	ERR
Q0591401	2002/1104000	00/10/02	Addaviiic		10.00		0.00	1. 1000	200	0.02.0	
	r Number 0209015										
Q6597485	2002AH65D01	08/24/02	Guiding Hands School	3012	20.20		0.00	4.4080	4.4662	0.0582	ERR
Q6597490	2002AH65S01	08/24/02	Guiding Hands School	3013	20.05		0.00	4.3813	4.4362	0.0549	ERR
Q6597492	2002AH65S02	08/24/02	RVHS) -	20.10		0.00	4.4290	4.4850	0.0560	ERR
Q6597471	2002AH65S03	08/24/02	Addaville	I	20.50		0.00	4.4502	4.4799	0.0297	ERR
Work Orde	r Number 0209016					T			T		l.
Q6597491	2002AH66D01	08/30/02	Guiding Hands School	3012	20.30		0.00	4.4264	4.4412	0.0148	ERR
Q6597494	2002AH66S01	08/30/02	Guiding Hands School	3013	20.90		0.00	4.4152	4.4529	0.0377	ERR
	r Number 0209017				1		A				
Q6597467	2002AH67D01	09/05/02	Guiding Hands School	3012	21.35		0.00	4.4111	4.4445	0.0334	ERR
Q6597466	2002AH67S01	09/05/02	Guiding Hands School	3013	20.75		0.00	4.4130	4.4383	0.0253	ERR
Q6597464	2002AH67S02	09/05/02	RVHS	-	21.15		0.00	4.4320	4.4724	0.0404	ERR
Q6597465	2002AH67S03	09/05/02	Addaville	-	21.10		0.00	4.4245	4.4566	0.0321	ERR
Work Orde	r Number 0209018										
Q6597446	2002AH70S01	09/23/02	Guiding Hands School	3012	21.05		0.00	4.4275	4.4432	0.0157	ERR
Q6597460	2002AH70S03	09/23/02	Addaville	-	20.40		0.00	4.4310	4.4545	0.0235	ERR
Mork Ords	r Number 024000F										
Q6597455	Number 0210005 2002AH71D01	00/20/02	Cuiding Handa School	2012	21.35		0.00	4.4549	4.4918	0.0369	ERR
	2002AH71D01 2002AH71S01	09/29/02 09/29/02	Guiding Hands School Guiding Hands School	3012	20.50		0.00	4.4549	4.4918	0.0369	ERR
Q6597454				3013			0.00		4.4868	0.0373	ERR
Q6597457	2002AH71S02	09/29/02	RVHS	•	20.55		0.00	4.4527		0.0341	ERR
Q6597456	2002AH71S03	09/29/02	Addaville	-	20.35		0.00	4.4566	4.4889	0.0323	ERR

B ₁₀ /1.47 b	Augustical	} 11 nome:	g. 10.,	(150 parts of 1 0 000 m to 1 000 m to 1000 m	¥	and the second of the second o
NTS	FILTER	TARE	DUP	EXPOSED		COMMENTS
. tan	I.D.	wt	wt	wt	wt DOP	
Tet. 41-41111/1/2		(g)	(3)	(3)	[(g)	
4/12	Q8609578	4.3518	The second secon	4.3696		en enemer veg
Me tel	Q8609577	4.4047		4.4346	443426	8-18
1	Q8609576	4.4045		4.4332	Allowed to Alloyd Assessment of the Alloyde	
02	Q8609575	4.4086	specifican state in managera	4.4336 E.Y 4.4336 E.Y	a and a contract of the contract of	
-00 N 0 (0 ())))))))))	Q8609574	4.3944	The second of th	44200	a constraint of the second	
- 44	08609573	4.3820	9/9/02 FOA	44151	Alexander and the second second	
1000	08609572	4.3980	4.3983	4.4317		1. M. A
	08609571	4.4116		4.4586	and the or more than the other transfer	. 6
· · · · · · · · · · · · · · · · · · ·	98609570	4.3708		4.4152		
(Agentale	08609569	4.3923		4.4459	4.4457	6/27/07
	08109568	4. 3413		4.4385	Tries	elullo O
	Q9609567	4.3699		4.4610		
	Q8609566	4.3652		4.4232		
	Q8609565	4.3893		4.4524		
	Q8609564	4.3782		4.4429	4.4425R	no 6/11/02
	Q8609563	4.3914		4.5010	MARKET STATE OF THE	
	08609562	4.4055		4.4541		
	9860956	4.4050	malar Fee	4.4643		
	01109560	4.3683	413687	4.4096	enter the life of the Hillerian	
	08609559	4.3343	A	4.3767	4.3.762	
	9809558	4.3507		4.3894	emies o la 111 -	
- 4	1009557	4.3532	***************************************	4.3750		
	63:09556	4.3494		4,3771		
Company	W609555	4.3580		4.4011	,	
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and the second state of	Filt.	TARE	DUP	Goosed	Exposed	NonamodS.
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'बन्ते-	036597471	4.43502	4.4506	4.4799	4,4800 M	
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and the Address	96597474	4,4\$511	gentlemande, com a hors stands order on a deleteral com by the dead	4.4803		
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	06597479	4.4190	d rat of the	4.4659		
	036597480	4,\$34166	THE RESERVE OF THE PERSON OF T	4.4776	mario de la casa de la	
	06597481	4.4009		4.4221	DE TENNESS SEER IS THE	
	96597482	4.4009		4.4795	8.0	
	065974 894	4.4152		4.4529	dillo M.	
- amazadi	06597484	4.4140		4.4425	4,4430 M.	Smudge like
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	06597486	4,3839	mercon announce a la material est. Z	4.3995	er enter a di la la	
	06597487	4.4050		4.4266	e same y	Large tear in the middle
	06597488	4,4444	1.1122	4.4624	10/07/-2	The middle
	06597490	4.4134 4.3813	4.4133	4.4362	1-11/10/2	
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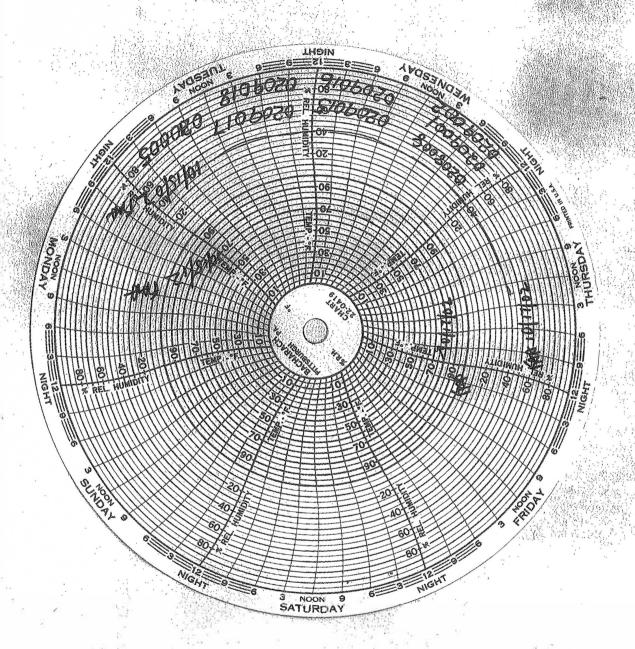
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